Mechanisms of Ageing and Development, 51 (1990) 305—306
Elsevier Scientific Publishers Ireland Ltd.

MECHANISMS OF AGEING AND DEVELOPMENT

VOLUME CONTENTS
Volume 51 (1990)

Longevity hormesis. A Review 1
P.J. Neafsey (Storrs, CT)
Nuclear pore complex frequency in CA1 pyramidal cells of the aging rat 33
A. Topple, G. Smith, E. Fifkova and K. Cullen-Dockstader (Boulder, CO)
Importance of a threshold for error accumulation in cell degenerative processes. I. modulation of the threshold in a model of free radical-induced cell degeneration 41
C. Michiels, M. Raes, E. Pigeolet, P. Corbisier, D. Lambert and J. Remacle (Namur, Belgium)
The role of sex and age in yeast cell phagocytosis by monocytes from healthy blood donors 55
K. Sondell, L. Athlin, L. Bjermer, S. Eriksson and B. Norberg (Umea, Sweden)
Effect of vitamin E and selenium supplement on the aging peripheral neurons of the male Sprague—Dawley rat 63
J. Koistinaho, H. Alho and A. Hervonen (Tampere, Finland)
Age-related cell cycle kinetics in the stimulated mouse vaginal epithelium 73
V. De Maertelaer, M. Authelet and P. Néve (Brussels, Belgium)
Aging: Effects on chronotropic actions of muscarinic agonists in isolated rat atria 81
R.H. Kennedy and E. Seifen (Little Rock, AR)
Peculiarities of neural regulation of the thyroid, adrenocortical and testicular functions in old age 89
V.V. Frolkis, E.N. Gorban and E.V. Moroz (Kiev, U.S.S.R)
Age related changes of the ciliary muscle in comparison with changes induced by treatment with prostaglandin $F_{2\alpha}$. An ultrastructural study in rhesus and cynomolgus monkeys 101
E. Tamm, E. Lutjen-Drecoll and J.W. Rohen (Erlangen, F.R.G.)
Effects of donor age on osteogenic cells of rat bone marrow *in vitro* 121
T. Tsuji, F.J. Hughes, C.A.G. Mc Culloch and A.H. Melcher (Ontario, Canada)
Absence of reverse transcriptase activity in human diploid fibroblasts 133
A. Srivastava, R.J. Shmookler Reis and S. Goldstein (Little Rock, AK)
Effects of ethanol on microsomal drug metabolism in aging female rats. II. Inhibition 139
L.E. Rikans (Oklahoma City, OK)

Age related changes in the effect of electroconvulsive shock on the blood brain barrier permeability in rats 149
B. Oztas, M. Kaya and S. Camurcu (Istanbul, Turkey)
The ageing hypothalamo-neurohypophysial system. An analysis of the neurohypophysis in normal hydration, osmotic loading and rehydration 157
I. Davies, Y.S. Davidson, C.Goddard, B. Moser, E.B. Faragher, J. Morris and A. Wilkinson (Manchester, U.K.)
Analysis of the age-related decline in alloreactivity of CD4+ and CD8+ T cells in CBA/RIJ mice 179
C. Vissinga, A. Hertogh-Huijbregts, J. Rozing and L. Nagelkerken (Rijswijk, The Netherlands)
Appearance of the terminal senescent cell population in human diploid fibroblasts analyzed by flow cytometry 195
M. Yamamot, Y. Mitsui, H. Ooka and K. Yamamoto (Tokyo and Ibaraki, Japan)
Age-related changes of erythrocyte membrane in the senescence-accelerated mouse 215
H. Abe and M. Orita (Osaka, Japan)
Phenotypic and functional properties of B lymphocytes from aged mice 223
B. Subbarao, J. Morris and R.J. Kryscio (Lexington, KY)
Age differences on ileal glucose absorption in rats 243
M.P. Vinardell (Barcelona, Spain)
Respiratory activity of isolated rat liver mitochondria following in vitro exposure to oxygen species: a threshold study 249
P. Corbisier, M. Raes, C. Michiels, E. Pigeolet, A. Houbion, E. Delaive and J. Remacle (Namur, Belgium)
T cell activation in the elderly: evidence for specific deficiencies in T cell/accessory cell interactions 265
I. Beckman, K. Dimopoulos, X. Xaioning, J. Bradley P. Henschke and M. Aherne (Adelaide, Australia)
Age-related changes in adrenaline content of rat splanchnic blood vessels 277
F. Amenta, E. Bronzetti, L. Felici, F. Ferrante and A. Ricci (Rome, Italy)
Glutathione peroxidase, superoxide dismutase, and catalase inactivation by peroxides and oxygen derived free radicals 283
E. Pigeolet, P. Corbisier, A. Houbion, D. Lambert, C. Michiels, M. Raes, M.-D. Zachary and J. Remacle (Namur, Belgium)
Author Index Volume 51 299
Auhtor Index Volume 51 301
Volume Contents Volume 51 305